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**GRAFT POLYMERIC MEMBRANES AND  
ION-EXCHANGE MEMBRANES FORMED THEREFROM**

**Abstract**

004420-092560

Graft polymeric membranes and methods for making same are provided in which one or more trifluorovinyl aromatic monomers are radiation graft polymerized to a polymeric base film. The membranes comprise a polymeric base film to which has been graft polymerized substituted  $\alpha, \alpha, \beta$ -trifluorostyrene and/or  $\alpha, \alpha, \beta$ -trifluorovinyl-naphthylene monomers which are activated towards graft polymerization. The membranes may be ion-exchange membranes suitable for use in electrode apparatus, including membrane electrode assemblies that may be used in, for example, fuel cells. The membranes may be crosslinked.